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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,310	04/24/2001	Scott Lee Wellington	5659-03300/EBM	5964
7	590 06/08/2005		EXAM	INER
DEL CHRISTENSEN			JOHNSON, JERRY D	
SHELL OIL COMPANY			ART UNIT	DADED AND CDED
P.O. BOX 2463			ARTUNII	PAPER NUMBER
HOUSTON, TX 77252-2463			1764	
			DATE MAILED: 06/08/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/841,310	WELLINGTON ET AL.
	Office Action Summary	Examiner	Art Unit
		Jerry D. Johnson	1764
Period fo	The MAILING DATE of this communication	appears on the cover sheet wi	th the correspondence address
A SH THE - Exte after	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days of the provision of the provis	ON. R 1.136(a). In no event, however, may a n n. a reply within the statutory minimum of thirt	eply be timely filed ty (30) days will be considered timely.
- If NC - Failu Any	period for reply is specified above, the maximum statutory per period for reply within the set or extended period for reply will, by significant the period for reply will, by significant the months after the new patent term adjustment. See 37 CFR 1.704(b).	eriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status			
1)[🗆	Responsive to communication(s) filed on 1	11 March 2005.	
-		This action is non-final.	•
	Since this application is in condition for allo		
•	closed in accordance with the practice und		
Disposit	ion of Claims		
•	Claim(s) <u>4188-4229,4231-4239 and 4241-</u>	4284 is/are pending in the apr	olication.
4)[△]	4a) Of the above claim(s) is/are with		-
5)□	Claim(s) is/are allowed.		
•	Claim(s) <u>4188-4229,4231-4239 and 4241-</u>	4284 is/are rejected.	
7)	Claim(s) is/are objected to.	-	
8)□	Claim(s) are subject to restriction ar	nd/or election requirement.	
Applicat	ion Papers		
91□	The specification is objected to by the Exar	miner.	
•	The drawing(s) filed on <u>11 March 2005</u> is/a		ected to by the Examiner.
,—	Applicant may not request that any objection to		
	Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)□	The oath or declaration is objected to by the		
Priority :	under 35 U.S.C. § 119		
-	Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. 8	§ 119(a)-(d) or (f).
	☐ All b)☐ Some * c)☐ None of:	and promise and or orong	e verter ve
a)	1.☐ Certified copies of the priority docum	nents have been received.	
	2. Certified copies of the priority docum		pplication No
	3. Copies of the certified copies of the		
	application from the International Bu		
* (See the attached detailed Office action for a		received.
Attach	nt/e)		
Attachmer 1) Notice	nt(s) ce of References Cited (PTO-892)		Summary (PTO-413)
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s)/Mail Date
3) 🔀 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/St	B/08) 5) ☐ Notice of I 6) ☐ Other:	nformal Patent Application (PTO-152)
Pane	er No(s)/Mail Date	,	

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 4188-4229, 4231-4239 and 4241-4284 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Lindquist.

Lindquist, U.S. Patent 3,892,270, teaches recovering a gaseous product gas containing hydrocarbon values from a hydrocarbon-containing formation (column 1, lines 6-18). Hydrocarbons can be recovered from heavy-oil fields by partial oxidation and thermal cracking of the hydrocarbons in situ (column 3, lines 6-8). The product gas is composed of various constituents including carbon monoxide, hydrogen, methane and C₁ to C₁₀ hydrocarbons, as well as carbon dioxide (column 3, lines 46-49). The product gas constituents may be optimized by controlling the ratio of oxidizing gas to steam (column 4, lines 3-4). The product reasonably appears to be either the same as or an obvious variation of the instantly claimed product because the product of Lindquist is also produced from a coal hydrocarbon formation and in a similar way as compared to the claimed product.

In the event any difference can be shown for the product of claims 4188-4284, as opposed to the product taught by Lindquist, such differences would have been obvious to one of ordinary skill in the art as a routine modification of the product in the absence of a showing of unexpected results.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 4188-4229, 4231-4239 and 4241-4284 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

To the extent it could be argued that the claimed composition is novel or unobvious, the claimed subject matter has not be described in the specification in such a way as to enable one skilled in the art to make and/or use the invention, i.e., hydrocarbon formations differ in chemical composition and applicants have not identified the chemical characteristics of the hydrocarbon formation from which the claimed product is derived.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 4188-4229, 4231-4239 and 4241-4284 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 4184-4224 and 4242-4280 of copending Application No. 09/841,127. Although the conflicting claims are not identical, they are not patentably distinct from each other because each set of claims appears to be drawn to products that have the same components in overlapping

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amounts. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the claims in 09/841,127 to obtain the product of the present application by choosing component amounts with the claimed ranges.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 4188-4229, 4231-4239 and 4241-4284 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 4429-4448 and 5396-5405 of copending Application No. 09/841,636. Although the conflicting claims are not identical, they are not patentably distinct from each other because each set of claims appears to be drawn to products that have the same components in overlapping amounts. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the claims in 09/841,636 to obtain the product of the present application by choosing component amounts within the claimed ranges.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 4188-4229, 4231-4239 and 4241-4284 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 4369-4402 of copending Application No. 09/841,240. Although the conflicting claims are not identical, they are not patentably distinct from each other because each set of claims appears to be drawn to products that have the same components in overlapping amounts. It would have been obvious to one having ordinary skill in the art at the time the invention was

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made to have modified the claims in 09/841,240 to obtain the product of the present application by choosing component amounts within the claimed ranges.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Applicant's arguments filed March 11, 2005 have been fully considered but they are not persuasive.

Applicants, arguing that independent claims 4188, 4209, 4229, 4246 and 4264 "describe a combination of features" (Remarks, page 19), argue

[r]egarding the demonstration described beginning in column 5, Lindquist states: "Periodic samples were taken of the gas and liquid products for later analysis.... A typical gas composition consisted of 7 percent methane, 1.7 percent ethane, 12 percent carbon monoxide, 2 percent hydrogen, with the balance carbon dioxide." (Lindquist, col. 6, lines 48-60) Thus, Lindquist teaches a gas product that includes only methane, ethane, carbon monoxide, hydrogen, and carbon dioxide. Lindquist also states: "Condensate sample yield analysis is shown in Table II." (Lindquist, col. 6, lines 60-61) The "Detailed Composition Summary" in Table II indicates that 100 volume percent of the condensate sample is made up of various compounds with carbon numbers ranging from C₃ to C₁₂. Thus, Lindquist does not appear to teach or suggest that any portion of the gas or liquid product includes ammonia. Likewise, Lindquist does not appear to teach or suggest that greater than 5% by weight of the condensable hydrocarbons comprises oxygenated hydrocarbons. (Remarks, pages 19 and 20).

Applicants' argument lacks merit.

Lindquist is not limited to the specific examples of the specification. As noted above, Lindquist teaches recovering a gaseous product gas containing hydrocarbon values from a hydrocarbon-containing formation (column 1, lines 6-18). Hydrocarbons can be recovered from heavy-oil fields by partial oxidation and thermal cracking of the hydrocarbons in situ (column 3, lines 6-8). The product gas is composed of various constituents including carbon monoxide, hydrogen, methane and C₁ to C₁₀ hydrocarbons, as well as carbon dioxide (column 3, lines 46-

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49). The product gas constituents may be optimized by controlling the ratio of oxidizing gas to steam (column 4, lines 3-4). The product reasonably appears to be either the same as or an obvious variation of the instantly claimed product because the product of Lindquist is also produced from a coal hydrocarbon formation and in a similar way as compared to the claimed product.

Applicants argue "that suitable hydrocarbon formations are described at least from line 29 of page 51 through line 13 of page 56 of the Specification." (Remarks, page 12).

Applicants' argument lacks merit.

Coal formations differ in chemical composition and it would be expected that any fluid obtained from a coal formation would depend on that chemical composition. Thus, to the extent it can be argued that the claimed compositions are novel or unobvious, the claimed subject mater has not been described in the specification in such a way as to enable one skilled in the art to make and/or use the invention, i.e., applicants have not identified the chemical characteristics of the coal formation from which the claimed product is derived. As to pages 51 through 56 of the specification, those pages contain a general description on which a coal formation may be selected (e.g., "richness, thickness and depth"), but fail to teach or disclose the chemical composition of the coal formation required to produce the claimed compositions.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry D. Johnson whose telephone number is (571) 272-1448. The examiner can normally be reached on 6:00-3:30, M-F, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217/9197 (toll-free).

Jerry D. Johnson Primary Examiner Art Unit 1764